

## Claims

1. Use, for combating and/or killing bacteria, mould, yeast, and algae in industrial materials and/or industrial processes of a composition comprising (A) a copper salt of N'-hydroxy-N-cyclohexyldiazenium oxide (CuHDO) and a diluent.
2. Use according to claim 1, wherein the CuHDO is generated in-situ within the application or medium using a water-soluble salt of N'-hydroxy-N-cyclohexyldiazenium oxide and a Cu-containing salt.
3. Use according to claims 1 or 2, wherein the composition additionally comprises another microbicidally active component (B) selected from: alcohols, isothiazolones, activated halogen compounds, formaldehyde release compounds, phenolic compounds, aldehydes, acids and esters, biphenyls, urea derivatives, O-acetals, O-formals, N-acetals, N-formals, benzamidines, phthalimides, pyridine derivatives, quaternary ammonium and phosphonium compounds, amines, amphoteric compounds, dithiocarbamates, compounds containing active oxygen and mixtures of any of these.
4. Use according to claims 1 or 2, wherein the other active component (B) is selected from at least one of 2-bromo-2-nitropropane-1,3-diol, 1,2-benzisothiazol-3(2H)-one, 1,3,5-tris-(2-hydroxyethyl)-1,3,5-hexahydrotriazine, 5-chloro-2-methyl-2H-isothiazol-3-one, 2-methyl-2H-isothiazol-3-one, tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)-imidazo[4,5-d]imidazole-2,5(2H,3H)-dione, 1,3-dimethyl-5,5-dimethylhydantoin and a polyvinylamine, IPBC, terbutryn, ziram, zineb, dichlofluanid, trichlofuanid, folpet, metal dihexa-2,4-dienoate, tebuconazole, 3-benzo(b)thien-2-yl-5,6-dihydro-1,4,2-oxathiazine-4-oxide, pyrrithiones, thiram, cybutryne, MBT, carbendazim, diuron, chlorotoluron, fluorometuron, thiabendazole, metazachlor, CuSCN, or dicopper oxide.
5. Use according to claim 3 to 4, wherein the respective amounts of the components (A) and (B) in the composition, by weight of the total amount of (A) and (B), are (A) 1 to 99 wt% and (B) 1 to 99 wt%.
6. Use according to claim 3 to 4 wherein the said respective amounts of (A) and (B) are (A) 40 to 60 wt% and (B) 40 to 60 wt%.
7. Use according to any one of claims 1 to 6, in the form of a paste, emulsion or solution or suspension.
8. Use according to any of claims 1 to 7, wherein the composition has a pH of at least 4.

9. Use according to any of claims 1 to 7, wherein the composition has a pH of at least 7.
  10. Use according to any of claims 1 to 7, wherein the composition has a pH of at least of from 8 to 12.
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